

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Semperfresh™
Product Code: 10187
Product Use: A liquid post-harvest treatment to protect and extend the storage and shelf life of fruit.
Supplier: Pace International, LLC
Address: 5661 Branch Road, Wapato, WA 98951
Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification:
 Physical, Flammable Liquid and Vapour,
 Category 3
 Eye irritation, Category 2A
 Specific Target Organ Toxicity, Single
 Exposure, Category 3

Hazard Symbols:



Hazard Statements:

WARNING
 H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary Statements:

Prevention Statements:

P210 Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/Bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/ lighting equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P280 Wear protective clothing, chemical resistant gloves, and safety glasses.
 P264 Wash hands thoroughly after handling.
 P261 Avoid breathing mist/vapours/ or spray.
 P271 Use only outdoors or in a well-ventilated area.

Response Statements:

P303/36/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370/378 In case of fire: Use CO₂, dry chemical, or foam to extinguish.
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337/313 If eye irritation persists: Get medical advice/attention.
 P304/340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.

Storage Statements:

P403/233 Store in well-ventilated place. Keep container tightly closed.
 P235 Keep cool.
 P405 Store locked up.

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Isopropyl Alcohol	67-63-0	10 -25.0 %
Ethanol	64-17-5	1 - 2.5 %
Proprietary food grade ingredients		balance



4. FIRST AID MEASURES

General	Immediate medical attention is required. Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Advice:	
If on Skin:	Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.
If Swallowed:	Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Rinse mouth with water and afterwards drink plenty of water or milk.
If Inhaled:	Move person to fresh air. Do not use mouth-to-mouth if victim inhaled the substance. If person is not breathing, call 911 or an ambulance, and then give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Flammable. Use alcohol resistant foam, water spray, carbon dioxide, or dry chemical powder. Water spray may be used to keep fire exposed containers cool. Do not use high volume water jet.
Special Exposure Hazards:	Under certain conditions, a fine dust cloud of this material in air may cause a dust explosion if ignited, as when exposed to heat, sparks or open flame.
Special Protective Equipment / Procedures for Firefighters:	Wear NIOSH/MSHA approved positive-pressure, self-contained breathing apparatus and full protective turn-out gear. Use water spray to cool fire-exposed containers. Use caution in approaching fire..

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing, chemical resistant gloves, and tightly fitting safety goggles or face shield. Ensure adequate ventilation, especially in confined areas.
Environmental Precautions:	In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
Containment / Clean-Up Methods:	Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Eliminate possible ignition sources. Absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal.

7. HANDLING & STORAGE

Handling:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and tightly fitting safety goggles or face shield. Use non-sparking tools.
Storage:	Store in a cool, well ventilated area. Keep container tightly closed when not in use. Keep away from sources of ignition. Prevent the buildup of electrostatic charge in the immediate area. Ensure lighting and electrical equipment is not a source of ignition. Keep out of reach of children and livestock.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Isopropyl Alcohol CAS# 67-63-0

STEL: 400 ppm (ACGIH TLV)

STEL: 500 ppm (OSHA PEL)

TWA: 200 ppm (ACGIH TLV)

TWA: 400 ppm (OSHA PEL)

Ethanol CAS# 64-17-5

STEL: 1000 ppm (ACGIH TLV)

TWA: 1000 ppm (OSHA PEL)

Engineering Controls:

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protective

Equipment :



Clothing: Wear protective clothing and chemical resistant gloves when handling.

Eye Protection: Wear tightly fitting safety goggles or face shield Eye fountain and washing facilities should be present at work area.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA-approved respirator should be worn. Respiratory protection must be provided in accordance with current local regulations.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid		
Appearance:	Viscous liquid	Upper/Lower flammability limits:	Not available
Odor:	Not available	Vapor pressure:	Not available
Odor threshold:	Not available	Vapor density: (air =1)	Not available
pH:	6.0	Specific Gravity: (H₂O = 1)	Not available
Melting/Freezing point:	Not available	Solubility:	Not available
Boiling point:	Not available	Partition coefficient (n-octanol-water):	Not available
Flash point:	24°C / 75°F	Auto-ignition temperature:	Not available
Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability (solid, gas):	Not applicable	Viscosity:	Not available

10. STABILITY & REACTIVITY

Reactivity hazards:	Stable under normal conditions.
Chemical stability:	Generally stable even under fire exposure conditions and not water reactive.
Conditions to avoid:	Heat, hot surfaces, sources of ignition, flames.
Incompatible materials:	Strong oxidizing agents, strong acids.
Hazardous decomposition products:	In combustion, emits toxic fumes. Hazardous polymerization does not occur.



11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Acute Oral:	LD ₅₀ (estimate): 13,874 mg/kg	Based on Ingredients
	Acute Dermal:	LD ₅₀ (estimate): 33,021 mg/kg	Based on Ingredients
	Inhalation:	LC ₅₀ (estimate): 20.60 mg/L	Based on Ingredients
Skin corrosion/irritation:	No information available.		
Eye damage/irritation:	Causes serious eye irritation		
Respiratory/Skin sensitization:	May cause drowsiness.		
Germ cell mutagenicity:	Not available		
Carcinogenicity:	No information available.		
Reproductive toxicity:	Contains a known or suspected reproductive toxin, avoid repeated exposure.		
Target organ effects:	May cause adverse liver effects. Ingestion could cause problems related to excess alcohol and polysaccharide ingestion.		
Aspiration hazard:	No information available.		
Potential health effects:	May cause serious eye irritation. May cause drowsiness or dizziness if ingested.		

12. ECOLOGICAL INFORMATION

Toxicity:	Isopropyl alcohol LC ₅₀ (96-hr) fish: 9640 mg/L Pimephales promelas flow-through LC ₅₀ (96-hr) fish: 11130 mg/L Pimephales promelas static LC ₅₀ (96-hr) fish: 1400000 µg/L Lepomis macrochirus EC ₅₀ (96-hr) algae: 1000 mg/L Desmodesmus subspicatus EC ₅₀ (72-hr) algae: 1000 mg/L Desmodesmus subspicatus EC ₅₀ (42-hr) daphnia & invertebrates: 13299 mg/L Daphnia magna Ethanol LC ₅₀ (96-hr) fish: 12.0 – 16.0 ml/L Oncorhynchus mykiss static LC ₅₀ (96-hr) fish: 100 mg/L Pimephales promelas static LC ₅₀ (96-hr) fish: 13400 – 15100 mg/L Pimephales promelas flow-through LC ₅₀ (48-hr) daphnia & invertebrates: 19268-14221 mg/L Daphnia magna EC ₅₀ (48-hr) daphnia & invertebrates: 2 mg/L Daphnia magna - static
Persistence/ degradability:	Not available
Bioaccumulative potential:	Isopropyl Alcohol CAS# 67-63-0 must be avoided (log Pow 0.05) Ethanol CAS# 64-17-5 must be avoided (log Pow -0.32)
Mobility in soil:	Not available
Other adverse effects:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
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14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
UN number:	UN1139	UN1139	UN1139
Proper shipping name:	Coating solution	Coating solution	Coating solution
Hazard class(es):	3, flammable liquid	3, flammable liquid	3, flammable liquid
Packing group:	III	III	III
Marine Pollutant:	Not applicable		
Special precautions:	None		



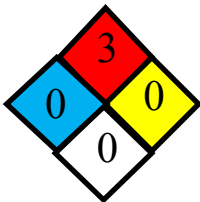
15. REGULATORY INFORMATION

Germany	Isopropyl alcohol CAS# 67-63-0RG 84 Ethanol CAS# 64-17-5RG 84
European Union	Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Authorization and/or restrictions on use	This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

16. OTHER INFORMATION

HMIS Ratings: Health – 0 Flammability – 3 Reactivity – 0

NFPA Ratings:



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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

SDS preparation date: December 20, 2018 **Replaces MSDS dated:** May 10, 2016
Changes since last revision: Section 3 correct CAS #

